

# Landowner Info Sources to Harvest the Wind

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# Windustry

## Institute for Ag & Trade Policy

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- ✍ newsletter
- ✍ [www.Windustry.org](http://www.Windustry.org)
- ✍ provide information and technical assistance for wind energy development
- ✍ online tools for evaluating distributed project feasibility
- ✍ Wind Farmers Network



# Windustry's WindFarmers Network

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- ✍ A network for landowners, farmers, ranchers, farm organizations, businesses, community leaders and others
- ✍ A membership-based exchange for case studies, individual experiences, lessons learned, negotiating points and more
  - ✍ More info on Wind easements
- ✍ Online at [www.windustry.org](http://www.windustry.org)



# Wind Easements

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- ✍ No standards
  - ✍ Some good, some bad, some ugly
- ✍ Long Term
  - ✍ Range from 20 years to perpetuity
  - ✍ Most common 20-40 years
- ✍ Main benefit - why this is so popular
  - ✍ A way to participate in wind development with no cash outlay from landowner



# Easements Lessons Learned

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Best results when landowner has good info on:

- ✍ The area's wind resource
- ✍ Wind developer's history
- ✍ Wind energy project economics
- ✍ Stays involved with siting of machines and roads
- ✍ Size of machine developer will use matters if easement is based on a percent of revenue



# Easements

## Lessons Learned

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- ✍ Overall wind easements arrangements from the landowners perspective are improving
- ✍ Negotiating on a broad area with neighbors has advantages
  - ✍ For example:  
North Dakota negotiated on a county-wide
- ✍ Consult your attorney before signing anything



# Harvest the Wind

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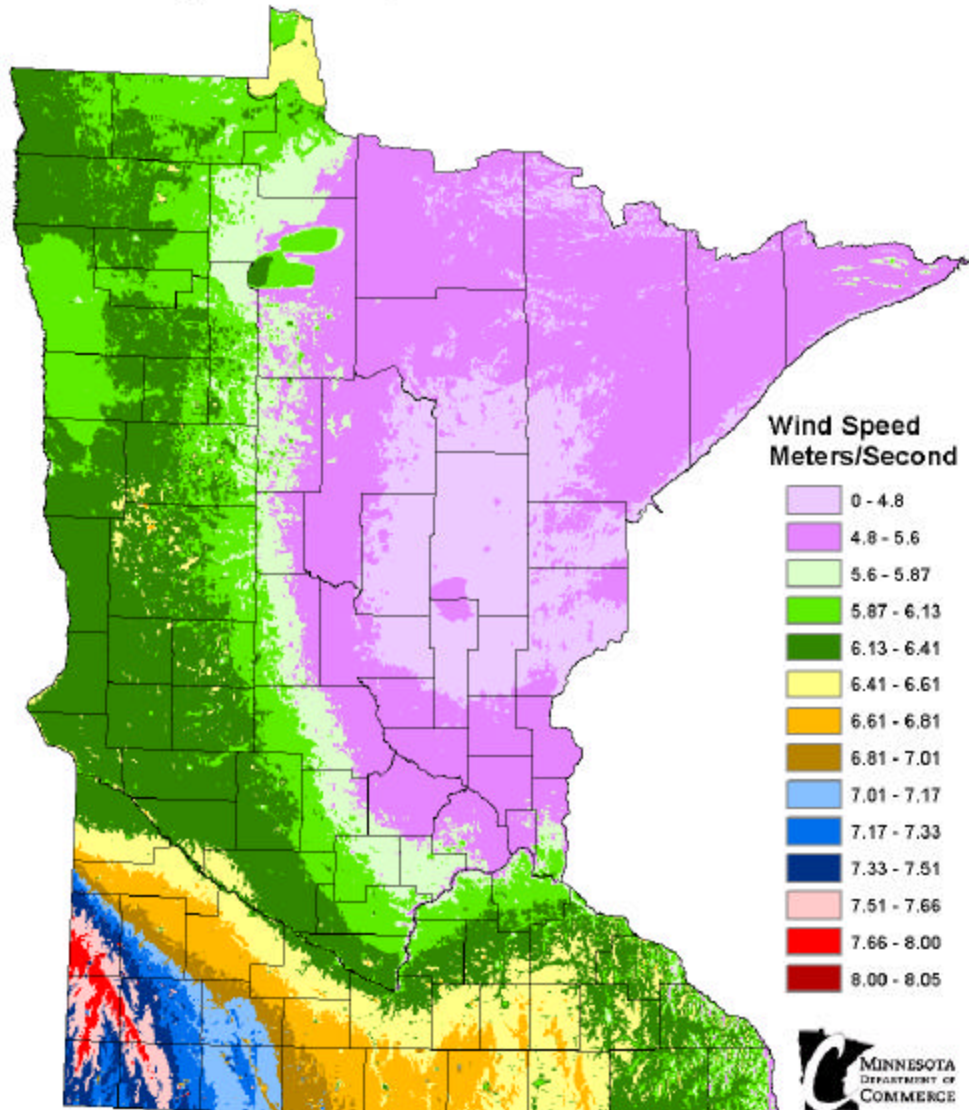
- ✍ Lease Land to a wind developer
- ✍ Form an ownership entity for commercial-size project
- ✍ Install a wind turbine on your land to produce your own electricity (small size turbine)

# What makes a good wind project?

- ✍ Average wind speed
- ✍ Proximity/access to the utility grid
- ✍ Cost of capital
- ✍ Federal and State incentives



## Minnesota's Wind Resource by Wind Speed at 50 meters



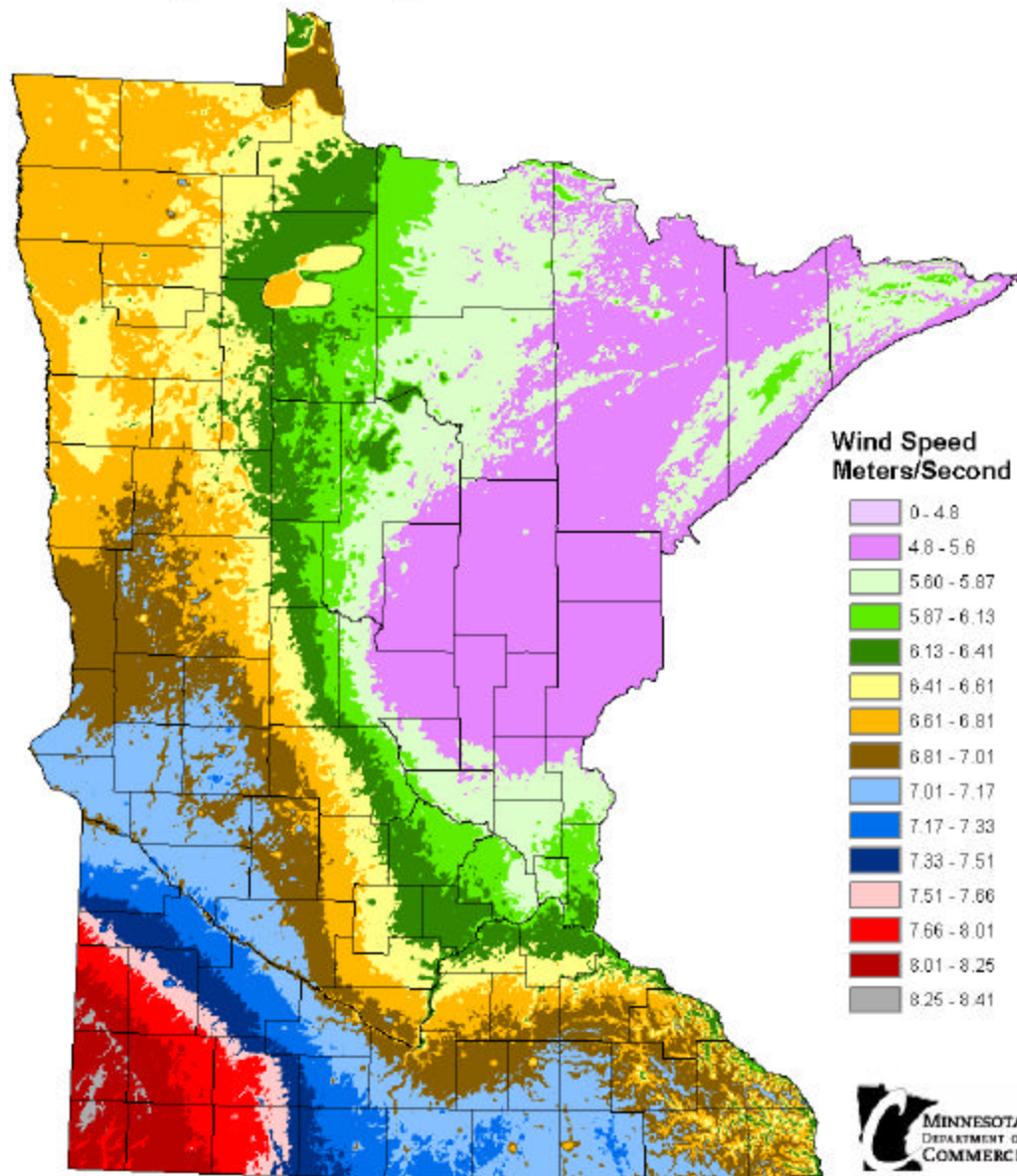
The Department of Commerce prepared this map using the WindMap program, which takes into account wind data, topography, and land use characteristics. Data is averaged over a cell area 790 meters square, and within any one cell there could easily be features that could increase or decrease the results shown on this map. Regions with the greatest concentrations of monitoring sites show the most accurate results. This map shows the general variation of Minnesota's wind resource and should not be used to determine the performance of specific projects.

June 2002

One of  
Minnesota's  
Wind Energy  
Assets



## Minnesota's Wind Resource by Wind Speed at 70 Meters

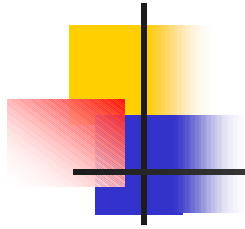


Up to date wind  
Measurement  
program.

The Department of Commerce prepared this map using the WindMap program, which takes into account wind data, topography, and land use characteristics. Data is averaged over a cell area 750 meters square, and within any one cell there could easily be features that could increase or decrease the results shown on this map. Regions with the greatest concentrations of monitoring sites show the most accurate results. This map shows the general variation of Minnesota's wind resource and should not be used to determine the performance of specific projects.

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# State Resources

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- ✍ State Energy Office

- ✍ Missouri Department of Natural Resources  
Center: [www.dnr.state.mo.us/energy](http://www.dnr.state.mo.us/energy)

- ✍ Wind Powering America - Missouri

- ✍ [www.windpoweringamerica.gov](http://www.windpoweringamerica.gov)



# Non-Governmental Orgs.

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- ✍ Union of Concerned Scientists
- ✍ Farm Commodity Orgs. - American Corn Growers Assoc.
- ✍ Western US - Harvesting Clean Energy
- ✍ Land and Water Fund of the Rockies
- ✍ SEED Coalitions (Sustainable Energy for Economic Development)
- ✍ Local Organizations & Coalitions
  - ✍ Heartland Renewable Energy Society



# US DOE Info Sources

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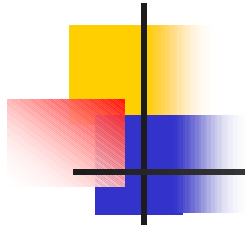
- ✍ National Renewable Energy Laboratory (NREL)
  - ✍ [www.nrel.gov](http://www.nrel.gov)
- ✍ Wind Powering America (WPA)
  - ✍ News, events and regional information
  - ✍ [www.windpoweringamerica.gov](http://www.windpoweringamerica.gov)
- ✍ National Wind Coordinating Committee (NWCC)
  - ✍ [www.nationalwind.org](http://www.nationalwind.org)



# (AWEA) American Wind Energy Association

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- ✍ National trade association for US wind industry
  - ✍ [www.awea.org](http://www.awea.org)
- ✍ Member directory
  - ✍ Source of information about wind energy, companies and consultants
- ✍ Wind projects
- ✍ Resource library
  - ✍ Fact sheets and other publications



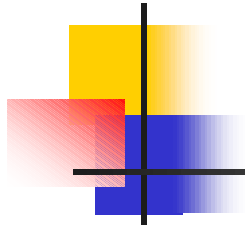
# Periodicals

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- ✍ Examples:

- ✍ Successful Farming
- ✍ Progressive Farmer
- ✍ Home Power Magazine

- ✍ Sometimes information is of mixed quality



# US Dept of Agriculture

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- ✍ Energy Title in the Farm Bill is hanging on by a thread but still alive - there are other areas of Farm Bill that support renewable energy ie. RUS and Rural Development
- ✍ There will be a Notice of Federal Request for Proposals later this spring
- ✍ Tune in to our website for up-to-date info
- ✍ [www.windustry.org](http://www.windustry.org)



# In Closing

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- ✍ Wind technology is here and the information is available.
- ✍ This is a 25 year crop. Do your homework:
  - ✍ know the value of your wind and your land (or site)
  - ✍ Ask questions and know the info sources
  - ✍ Discuss with neighbors
  - ✍ Consult your attorney
- ✍ Consider your options with a short term and long term view. What are your goals?